IN THE SPECIFICATION

Please amend the specification as follows:

Replace the paragraph spanning pages 6-7, between page 6, line 31, and page 7, line 26 of the specification with the following:

FIG. 5 illustrates an embodiment of the invention in a system 100 for authenticating an audio-visual signal. An audio-visual signal is generated in 110. Preferably the audio-visual signal is captured in 110 by an image capturing device camera, such as a surveillance camera or a CCD array and/or an appropriate means for capturing the audio signal, such as a microphone. However, the audio-visual signal may also originate from a transmission signal, such as a video signal, or from a storage device, such as a harddisk drive or similar computer readable medium. The audio-visual signal is further processed in the apparatus 101 according to an embodiment of the invention. The audio-visual signal captured in 110 is fed into the apparatus 101. A slice of N lines of said audio-visual signal are stored and hold in memory 120. Memory 120 is built of N line-memories and comprises an additional memory for

storing signature bits. The number N of lines is much lower than that of the entire audio-visual signal, an example is 3 line memories in means 120 for 480 horizontal lines in an audio-visual signal captured in 110. The extra memory needed for said signature bits is much lower than that for said lines, according to the discussion in the sections above. Means 130 communicates with said memory circuit 120 and calculates a signature for the lines in memory 120. The signature formed is based on the contents of the lines in memory 120. When the signature is formed, it is embedded in the lines still held in memory 120. The signature bits generated are saved in memory 120 for later use, such as embedding in subsequent slices of said audio-visual signal. The signature calculated is preferably embedded as a watermark, preferably a robust watermark, by means 140. A robust watermark is a watermark which is embedded in the audio-visual signal and which is not influenced by allowable image operations such as lossy compression. Subsequently said lines of said audio-visual signal with the signature embedded are fed out of apparatus 101 for further processing in 150. Subsequently the next N lines of the same frame of said audio-visual signal are loaded into memory 120, the

signature is formed for the new line contents and embedded into the lines, preferably in combination with the signature bits previously calculated and saved in memory. The combined signature is also calculated by means 120 130. The above procedure is repeated until a signature has been calculated and embedded for all lines of a frame. Then memory contents in 120 is are erased and a new frame generated in 110 is treated in 101.